

IN THE CLAIMS:


Please amend Claims 1, 5, 6 and 9 as indicated hereinbelow:

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1. (Currently amended) A recombinant non-yeast DNA, ~~which encodes~~ encoding a plant protein of interest, wherein an unmodified DNA corresponding to the said recombinant non-yeast DNA contains a region having a high content of codons that are poorly suited to yeasts, wherein a number of the codons that are poorly suited to yeasts are replaced in said region of the said recombinant non-yeast DNA with synonymous codons coding for the same amino acid that are well-suited to yeasts, wherein the number of replaced codons is sufficient to permit expression in yeasts.
 2. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein the poorly suited codons are selected from the group consisting of codons whose frequency of use by yeasts is less than about 13 per 1000 codons.
 3. (Previously amended) The recombinant non-yeast DNA according to claim 2, wherein the poorly suited codons are selected from the group consisting of CTC, CTG and CTT, which encode leucine, CGG, CGC, CGA, CGT and AGG, which encode arginine, GCG and GCC, which encode alanine, GGG, GGC and GGA, which encode glycine, and CCG and CCC, which encode proline.
 4. (Previously amended) The recombinant non-yeast DNA according to claim 3, wherein the poorly suited codons are selected from the group consisting of CTC and CTG, which encode leucine, CGG, CGC, CGA, CGT and AGG, which encode arginine, GCG and GCC, which encode alanine, GGG and GGC, which encode glycine, and CCG and CCC,

which encode proline.

5. (Currently amended) The recombinant non-yeast DNA according to claim 1, wherein the codons that are well-suited to yeasts are selected from the group consisting of codons whose frequency of use by yeasts is greater than 15 per 1000 codons.
6. (Currently amended) The recombinant non-yeast DNA according to claim 5, wherein the well-suited codons are selected from the group consisting of TTG and TTA, which encode leucine, AGA, which encodes arginine, GCT and GCA, preferably GCT, which encode alanine, GGT, which encodes glycine, and CCA, which encodes proline.
7. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein the region having a high content of codons that are poorly suited to yeasts contains at least 2 poorly suited codons among 10 consecutive codons, wherein the poorly suited codons are adjacent or nonadjacent to each other.
8. (Previously amended) The recombinant non-yeast DNA according to claim 7, wherein the region having a high content of poorly suited codons contains 2, 3, 4, 5 or 6 poorly suited codons per 10 consecutive codons, or contain at least 2 or 3 adjacent poorly suited codons.
9. (Currently amended) A recombinant non-yeast cDNA, which encodes a plant protein of interest, wherein an unmodified DNA corresponding to said recombinant non-yeast DNA contains a region of high CTC codon or high CTC+CTG codon content, wherein a number of said CTC codons and/or CTG codons are replaced in said recombinant non-yeast DNA with TTG and/or TTA codons, and wherein the number of replaced codons

is sufficient to permit expression in yeasts.

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10. (Previously amended) The recombinant non-yeast cDNA according to claim 9, wherein the CTC codon(s) and/or the CTG codon(s) are replaced with TTG codon(s).
 11. (Previously amended) The recombinant non-yeast cDNA according to claim 9, wherein the region having a high content of leucine contains 2, 3, 4, 5 or 6 leucines per 10 consecutive amino acids, or contain at least 2 or 3 adjacent leucines.
 12. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein the general content of poorly suited codons in the corresponding unmodified DNA is at least 20% of the total number of codons.
 13. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein replaced codons are in the 5' region.
 14. (Previously amended) The recombinant non-yeast DNA according to claim 13, wherein replaced codons are only in the 5' region.
 15. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein the corresponding unmodified DNA is a plant DNA.
 16. (Previously amended) The recombinant non-yeast DNA according to claim 15, wherein the corresponding unmodified DNA is selected from the group consisting of a dicotyledonous plant DNA and a monocotyledonous plant DNA.
 17. (Previously amended) The recombinant non-yeast DNA according to claim 16, wherein

the corresponding unmodified DNA is selected from the group consisting of a wheat DNA, a barley DNA, an oat DNA, a rice DNA, a maize DNA, a sorghum DNA, and a cane sugar DNA.

18. (Previously amended) The recombinant non-yeast DNA according to claim 1, wherein the protein of interest is an enzyme.
19. (Previously amended) The recombinant non-yeast DNA according to claim 18, wherein the enzyme is a cytochrome P450.
20. (Previously amended) The recombinant non-yeast DNA according to claim 19, wherein the corresponding unmodified DNA has a nucleotide sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:10.
21. (Previously amended) The recombinant non-yeast DNA according to claim 19 having a nucleotide sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, and SEQ ID NO:14.
22. (Previously amended) A chimeric gene which comprises a recombinant non-yeast DNA sequence according to claim 1 operably linked to heterologous 5' and 3' regulatory elements which are able to function in a yeast.
23. (Previously amended) A yeast transformation vector comprising at least one chimeric gene according to claim 22.
24. (Previously amended) A process for transforming a yeast cell using a vector according to claim 23 comprising contacting a yeast cell with said vector under conditions that

permit said yeast cell to take up said vector.

25. (Previously amended) A transformed yeast for expressing a protein of interest, comprising the chimeric gene according to claim 22.
26. (Previously amended) The yeast according to claim 25, wherein it is selected from the group consisting of *Saccharomyces*, *Kluyveromyces*, *Hansenula*, *Pichia* and *Yarrowia*.
27. (Previously amended) A process for producing a heterologous protein of interest in a transformed yeast, comprising:

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- a) transforming a yeast with a vector which contains a recombinant non-yeast DNA according to claim 1 operably linked to heterologous 5' and 3' regulatory elements which are able to function in a yeast;
 - b) culturing the transformed yeast; and
 - c) extracting the protein of interest from the yeast culture.

28. (Previously amended) A process for transforming a substrate by enzymic catalysis using an enzyme which is expressed in a yeast comprising:

- a) culturing, in the presence of the substrate to be transformed, the yeast according to claim 25; and
- b) recovering the transformed substrate from the yeast culture.